



Earned Value Management Overview

Audience: Project team members who need a top level understanding of basic Earned Value Management concepts

Goal: This 6 hour course will provide a high level understanding of Earned Value Management (EVM) concepts.

Learning Objectives: Participants will be able to:

- Understand basic EVM concepts and terminology
- Understand how to interpret EVM reports and graphs

Learning Methods: Lectures, case studies, discussions, and group exercises

Key Topics:

- EVM terminology
- EVM guidance and policy
- Performance Measurement Baseline
- Earned Value techniques/methods
- Earned Value formulas, variances, and performance indices
- Estimates At Completion

Suggested Prerequisites:

- none

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Module Name	Topics	Learning Objectives - Participants will be able to:
1.0 Introduction	<ul style="list-style-type: none">• Instructor/participant introductions• Agenda• Course Objectives	<ul style="list-style-type: none">• Articulate course objectives and outcomes
2.0 Policy and Guidance	<ul style="list-style-type: none">• Policy Introduction: OMB, 7120.5, FAR, EIA-748	<ul style="list-style-type: none">• Understand the basic reasons for EVM• Understand the governing requirements for EVM on NASA projects
3.0 The Importance of the Baseline	<ul style="list-style-type: none">• Baseline development• EVM Measurement Techniques	<ul style="list-style-type: none">• Understand the high level principles involved in establishing a Performance Measurement Baseline• Recognize the various methods of assessing earned value
4.0 Analyzing the EVM data	<ul style="list-style-type: none">• Basic EVM concepts and formulas• Types of variances• EVM reports• Comparative analysis• Performance indices and factors• Computing Estimates At Completion (EACs)	<ul style="list-style-type: none">• Recognize the significance of variances from the baseline• Understand how to interpret EVM reports and graphs• Understand how and why to compare historical with forecast performance indices and data• Understand how to use performance indices and factors to calculate estimates of the final cost• Understand the types of information that should be included in corrective action plans
5.0 EVM Analysis Case Study	<ul style="list-style-type: none">• Reinforce EVM concepts and module learning outcomes• Provide a forum for discussion of actual situations encountered by the class participants	<ul style="list-style-type: none">• Understand how to apply basic EVM concepts to project work – even projects without an EVM requirement